CONVOY TECHNOLOGIES
See Everything

Owner's / Installation Manual

Performance Series

M7104RF

LCD COLOR MONITOR

Please read this manual thoroughly before operating the unit, and keep it for further reference.

Convoy Technologies 3300 Irvine Ave., Suite 310 | Newport Beach, CA 92660 | Ph (888) 565-2583

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PRECAUTIONS

Storage and keeping

Do not expose the monitor to excessive heat or cold. The storage temperature of this device is -30 ~+75 C, and the oper ating temperature is -20 ~+60 C. The Humidity is Rh90%.

Never use this device near a bathtub, wash basin, kitchen, damp basement, swimming pool or similar place.

Never use this device in environments with excessive moisture, dust or smoke.

Avoid dropping or striking this device.

Never puncture, scratch or use abrasive cleaning materials on this device.

The monitor is not designed to be waterproof.

Operating Precautions

Make sure all cables are connected properly observe polarity. Improer cable connections may damage the monitor. Re move the power cable connections when you do not intend to use the unit.

⚠ Warning!

1. High voltage is present within the monitor. The opening of the case should be by professionals.
2. Do not watch the video while driving unless you are monitoring the rear view camera display.

⚠ Special Notice

Occasionally, a few highlights or dark spots may occur on the LCD screen. This is a very common phenomenon in active matrix display technology, and doesn't necessarily indicate any defects or faults. Never try to repair this device by yourself. In case of any problems, please turn off the display at once and notify our company or authorized dealer. The monitor is a complex device. Any disassembly or modification may lead to damage and void the warrantee.

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PRECAUTIONS

Maintenance

1. Remove all the cable connections from the monitor before cleaning the unit.
2. Use a mild household detergent and clean the unit with a slightly damp, soft cloth. Never use strong solvents such as thinner or benzene, as they might damage the finish of the device.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servcing) instructions in the literature accompanying the appliance.

This symbol is intended to alert the user not to waste electrical and electronic equipment.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your warrantee and necessitate expensive repairs.

Declaration of conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference. This device must accept any interference received, including interference that may cause under desired operation.

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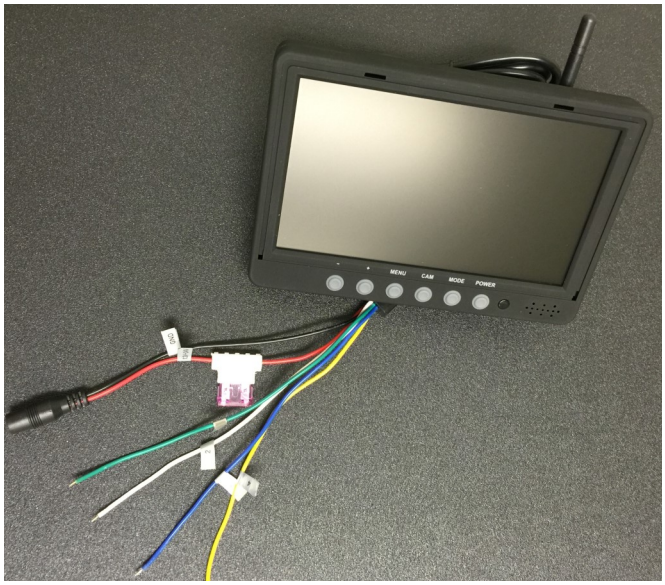
Mounting the Monitor

1) Select a location allowing 2" space between monitor and walls, cabinets, or other objects to allow adequate air circulation around it. Avoid enclosed spaces, areas with excessive vibration or subject it to severe impacts.
2) Never use this device in environments with excessive moisture, dust or smoke. Do not place cables where they may be pinched or stepped on. Monitor is not designed to be waterproof.
3) The device may be powered by a 12 or 24 volt automotive battery or vehicle electrical system.
4) Make sure all cables are connected properly, observe polarity. Improper cable connections may damage the monitor. Remove the power cable connections when you do not intend to use the unit.

M7104RF Harness:

- Red and Black—Power (12-24VDC) and Ground
- Green—Trigger Wire for Channel 1
- White—Trigger Wire for Channel 2
- Yellow—Trigger Wire for Channel 3
- Blue—Trigger Wire for Channel 4



Installation Notes: Trigger wire function

- All 4 Camera connections have a trigger wire which can be activated with 12VDC. When the trigger wire is activated, the monitor automatically switches to view THAT Camera. When voltage is removed from the trigger wire, monitor returns to previous view.
- If the monitor is off, when the trigger wire is activated, the monitor will turn on to show THAT Camera. This safety feature is particularly useful for night driving, as the monitor light can be distracting to the operator.
- CT-M7104RF has just one RF receiver, so it will only show one camera at a time. It can pair with and remember up to 4 cameras. Pairing memory is not volatile when power is disconnected, the cameras stay paired.

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M7104RF Operation

(1) **-** button – Vol Down, or adjusting Down

(2) **+** button – Vol Up, or adjusting UP

(3) MENU – Access menu: Picture, Audio, Options, Ch Delay, Back Delay

(4) CAM – Switches camera channel, or select an option in MENU.

(5) MODE – Enters Monitor into pairing mode when held 3 seconds

(6) POWER – Turns monitor On and Off.

(7) Power indicactor Light.

(8) Loudspeaker

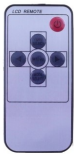
Pressing MENU shows the first MENU screen. There are 5, each press of MENU selects the next screen. To adjust a feature, first select it by hitting CAM button, then use—or + to change.

- *-/+ buttons adjust Volume. After pressing MENU, they will change a feature that is highlit, hit CAM to select that feature, then either -/+ to adjust the feature shown. MENU will select the next menu screen. Menu will time out after 10sec without a button press. You can also continue to hit MENU to exit.*
- *Ch Select in the OPTIONS menu selects the number of cameras you want displayed, 1,2,3,4.*
- *Pairing Cameras: hit CAM to select Channel. Push and hold MODE 3sec and release to start pairing mode. 50sec countdown starts. Go to camera to pair, push and hold camera pairing button 6sec and release. You will see SAVE DATA on monitor when pairing is successful. Hit CAM to select next channel and repeat steps above till you have paired all cameras.*
- *Ch Delay menu allows you to select the time to view each camera when using Channel scrolling feature. Once cameras are paired, push and hold CAM 4sec and release. Monitor will display each camera channel the preset amount of time.*
- *Ch Back menu allows you to select the time delay the monitor stays on a triggered camera. (if you use a turn indicator wire to trigger a side camera, that voltage switches on and off. Increasing Ch Back delay, the picture from that camera will stay on instead of flashing on and off with the trigger voltage)*

Using the Remote Control

Pressing MENU will reveal the menu pages (there are 5). Use VIDEO SELECT and MODE SELECT buttons to select a feature, and ↔buttons to adjust.

- *↔buttons adjust Volume. After pressing MENU, they adjust the feature shown. Use VIDEO SELECT (UP) AND MODE SELECT (DOWN) buttons to highlight the feature on a menu page.*



Remote Control

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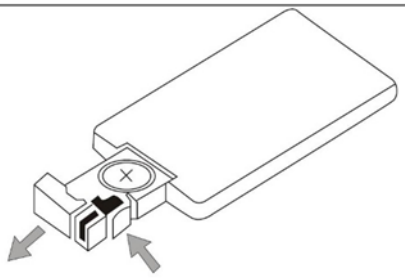
Replacing the Remote Batteries



Notice

1. Please align the remote control with the infrared-receiving window on the monitor to operate.
2. Never disassemble the remote control or allow it to drop, or become wet.
3. Press the control buttons firmly. Allow 2 seconds for the picture to change.

Troubleshooting

Symptom	possible Causes/Solutions
No picture. No sound	Improper connection of automobile adapter. Use of un-authorized power supply. Power switch is on OFF position
No picture	Check whether locking cable is properly connected.
No sound	Check whether locking cable is properly connected, or the sound volume is set too low
Dark picture	Check whether brightness and contrast are adjusted correctly; Check whether the environments temperature is too low.
No color	Adjust the color settings.
Upside down or lateral inverted picture	Use the remote/ MENU-OPTION-ROTATION button to set proper orientation
No reversing function (i.e. Picture)	Check the wires (black/ red/ Green) that may be loose

Specifications

7" TFT-LCD	Color Monitor
Audio Output:	0.5 W
Power Supply:	12-24VDC
Power Consumption:	4W Max, 0.33amps
Video Input:	4
Resolution:	800x3 (RGB), 480
Contrast:	500:1
Brighttness:	510cd/m²
Viewing Angle:	50°-U, 70°-D, R/L 70°
Operating Temperature:	-20°C—+50°C

Warranty and Support Information

Subject to the provisions described below, this CT product is protected for 1 year against defects in material and workmanship. Should a product fail to perform as described above within the warranted period, it will be repaired or replaced with the same or functionally equivalent product by CT. This warrant does not apply if , in the judgement of CT, the product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained in a manner not conforming to product manual instructions, has been modified in any way. Repair by anyone other than CT or an approved agent will void this warranty. The maximum liability of CT under this warranty is limited to the purchase price of the product covered by the warranty. All defective products should be returned to CT with shipping charges prepaid. CT will not accept collect shipments.